



**US 18010DIV**

# PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Jorg Schottek et al.

Serial No.: 10/659,163

**Filed: September 10, 2003**

For: **PROCESS FOR PREPARATION OF A  
SALT-LIKE CHEMICAL COMPOUND  
AND ITS USE INCATALYST SYSTEMS  
FOR PREPARING POLYOLEFINS**

Examiner: **Caixia Lu**

Art Unit: **1713**

Honorable Commissioner for Patents  
Washington, D.C. 20231

December 8, 2003

## INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is being filed before the first Office action on the merits.

All the references listed in the present Information Disclosure Statement have been submitted to the Patent Office in Patent Application No. 09/798,859, filed February 22, 2001, of which the present application is a divisional. Therefore, copies of the cited references are not enclosed herewith, in compliance with 37 CFR 1.98(d).

No payment is believed to be due; however, the Commissioner is hereby authorized to charge USPTO deposit account 08-2336 any payment due and to credit any overpayment thereto.

Respectfully submitted,

**JORG SCHOTTEK ET AL.**

December 8, 2003  
(Date)

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I hereby certify that this correspondence is being deposited with sufficient postage thereon with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 8, 2003.

Jamie M. [Signature]  
December 8, 2003  
Date of Signature

<b>Form PTO-1449</b> DEC 10 2003 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>	Document Number (optional) <b>US 18010 DIV</b>	Application Number <b>10/659,163</b>
	Applicant <b>Jörg Schüttk et al.</b>	
	Filing Date <b>September 10, 2003</b>	Group Art Unit <b>1713</b>

## U. S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5384299	01/24/95	Turner et al.	502	155	02/19/93

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	3543360	11/06/87	DE (English Abstract)	C08F	10/02		
	0107127	05/02/84	EP	C08F	10/00		
	0129368	12/27/84	EP	C08F	10/00		
	0416815	03/13/91	EP	C08F	10/00		
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## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	H. H. Brintzinger et al., "Stereospezifische Olefinpolymerisation mit chiralen Metallocenkatalysatoren," <u>Angew. Chem.</u> , 107: 1255-1283 (1995) (DE) (English Abstract)
	H. Sinn et al., "Scope of Ziegler Catalysis," <u>Advances in Organometallic Chemistry</u> , 18: 99-149 (1980)
	X. Yang et al., "'Cation-like' Homogeneous Olefin Polymerization Catalysts Based upon Zirconocene Alkyls and Tris(pentafluorophenyl)borane," <u>J. Am. Chem. Soc.</u> , 113: 3623-3625 (1991)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

**Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE**



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**US 18010 DIV****Application Number**

**10/659,163**

***(Use several sheets if necessary)***

**Applicant**

**J rg Sch ttek t al.**

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## Group Art Unit

1713

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	Translation	
													YES	NO
	9	8	2	2	4	8	6	05/28/98	WO	C07F	17/00			
	9	9	6	4	4	7	6	12/16/99	WO	C08F	4/603			

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

	Bodo Temme et al., "Oxidative $\eta^2$ -iminoacyl formation by reaction of amidozirconocene complexes with tris(pentafluorophenyl)borane," <u>J. of Organomet. Chem.</u> , 448: 177-182 (1995)
	D. Röttger et al., "Reaction of dimethylzirconocene with imidazole in the presence of tris(pentafluorophenyl)borane," <u>Journal of Organometallic Chemistry</u> , 518(1), pages 17-19 (1996)
	N. Metzler et al., "Synthesis of a silylene-borane adduct and its slow conversion to a silylborane," <u>Chem. Commun.</u> , 23, pages 2657-2658 (1996)

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**Jörg Schott et al.**

*(Use several sheets if necessary)*

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## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

J. Galsworthy et al., "Reactions of transition-metal oxo complexes with  $B(C_6F_5)_3$ : crystal structures of ...," *J. Chem. Soc.*, 8, pages 1309-1313 (1997)

G. Kehr et al., "Protonation of the Heterocyclic Cp-Anion Equivalent [Pyrrolyl-B(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>Li-Formation of a Useful Neutral..." *Eur. J. Inorg. Chem.*, 2, pages 535-538 (2001)

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